
What is claimed is:

1. A high-throughput screening method of antagonistic material of integrin, comprising the steps of:

- 5 a) immobilizing integrin $\alpha_{IIb}\beta_3$ and/or $\alpha_v\beta_3$ on protein chip;
- b) reacting ligand protein labeled with fluorescence and peptide pool of peptide library on the protein chip on which the integrin is immobilized;
- c) washing the protein chip with buffer solution after the reacting; and
- d) measuring the degree of ligand binding after the washing.

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2. The high-throughput screening method of claim 1, wherein the ligand is any one selected from the group consisting of vitronectin, fibronectin, collagen, laminin, Von Willebrand Factor (vWF) and fibrinogen.

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3. HSDVHK peptide (SEQ ID NO: 1), HGDVHK peptide (SEQ ID NO: 2), HLLHK peptide (SEQ ID NO: 3), HGLVHK peptide (SEQ ID NO: 4) or HGDLHK peptide (SEQ ID NO: 5) having antagonistic activity of integrin $\alpha_v\beta_3$ and obtained by the screening method of claim 1 or claim 2.

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4. A pharmaceutical composition for treating cancer, comprising peptide of claim

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